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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,820	02/03/2004	Koichiro Tanaka	740756-2709	9528
22294 7590 10282908 NIXON PEABODY, LLP 401 9TH STREET, NW			EXAMINER	
			HEINRICH, SAMUEL M	
SUITE 900 WASHINGTON, DC 20004-2128			ART UNIT	PAPER NUMBER
	. ,		3742	
			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/769.820 TANAKA, KOICHIRO Office Action Summary Examiner Art Unit Samuel M. Heinrich 3742 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 4-15.37-48 and 52-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 4-15,37-48 and 52-54 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 03 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 10/170,739. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-882)

Notice of Draftsperson's Patient Drawing Review (PTO-948)

Paper No(s)/Mail Date.

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Notice of Interview Summary (PTO-413)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-15, 37-48, and 52-54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

All independent claims recite "first and second pins", however the specification does not specifically describe this specific feature. The only description of pins is found in [0060]. Support for these features in the Specification must be clearly described or the description must be deleted from the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this tilt, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-15, 37-48, and 52-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable over Applicant's Admitted Prior Art (AAPA) and USPN 5,858,822 to Yamazaki et al and USPN 6,440,785 to Yamazaki et al and USPN 4,724,222 to Feldman in view of USPN 4,088,312 to Frosch et al.

AAPA discloses (Specification, Background of the Invention) well known laser annealing apparatus comprising a linear shaped beam, but do not describe the means Application/Control Number: 10/769,820

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for expanding and condensing the beam or the cylindrical shaped stage. AAPA shows (e.g., Figure 2) well known cylindrical lens array and cylinder lens.

In USPN 5,858,822, Yamazaki et al describe (column 5, lines 20-36) a U-shaped irradiation surface and a linear laser beam having a U-shaped focus line that conforms thereto. In USPN 6,440,785, Yamazaki et al describe (Claim 12) expanding the laser beam in a first direction and condensing the laser beam in the second direction. The beam delivery to a U-shaped irradiation surface is well known.

Feldman describes (column 6, lines 11-19) that either a convex or a concave wafer chuck can be used with an energy beam apparatus.

Frosch et al show a securing system which comprises an array of adjustable length spindles.

The use of the concave chuck surface comprising pins of different height would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the curved surface provides precise relationship with a reference surface for high-resolution patterning techniques.

The instant claimed expanding and condensing means and locations thereof would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to produce the linear beam with the concave work support.

With respect to the particular claimed equations, the ranges disclosed in the instant Specification (DETX (51), [0104]-[0105]), focal length (f2) parameters are listed from 2200 mm to 8800 mm and range of radius of curvature parameters are listed from

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9000 mm to infinity. The prior art apparatus can be adjusted to fall within this range and the use of a concave wafer chuck therewith would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to be able to make high-resolution patterns.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Drake and Godding disclose adjustable two dimensional array work supports. Allaire et al disclose elongated beam spots.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel M Heinrich/ Primary Examiner, Art Unit 3742